

Elution Test Summary:

Homemade ETOH Releaser - Single Pipe Cleaner Wick 250 ml bottle (100 ml starting load)

Manufacturer/Supplier: Homemade

Product number: Nalgene® 250 ml HDPE bottle no. 312004-0008.

Description: Nalgene® bottle (250 ml) used with pipe cleaner wick (6 in. long x 1/8 in. diameter) and 9/64 in. hole drilled through lid. This evaluation used an initial starting load of 100 ml (~81 g) ETOH (95% ethanol, laboratory grade).

(Right) Homemade ETOH releaser consisting of 250 ml bottle and pipe cleaner wick. Scale depicts inches.



Our Evaluation:

Location: Pineville, LA

Dates: 31 August to 14 December 2007

Duration: 105 days

Temperature mean (°F):

77.3 (34 d)

68.3 (105 d)

Weight loss mean (g/d):

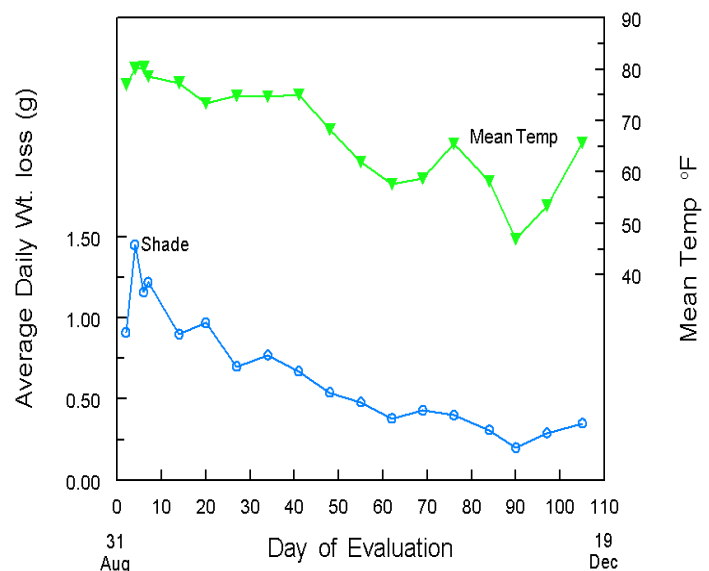
Shade

0 to 34 d = 1.01

0 to 105 d = 0.67

Comments: 4 devices, shade only due to inability to protect from taking on water during rainfall events in full sun. Bottles were not refilled.

Ethanol Bottle - Pipe Cleaner Wick
Pineville, LA 2007



Copies and data may be obtained at <http://www.fs.fed.us/foresthealth/technology/elutionrate>. For more information please contact: Brian Strom, USDA Forest Service, SRS-RWU-4552, Pineville, LA 71360 (brianstrom@fs.fed.us); Sheri Smith, USDA Forest Service, R-5 Forest Health Protection, Susanville, CA 96130 (ssmith@fs.fed.us); or Andy Trent, USDA Forest Service, Missoula Technology Development Center, Missoula, MT 59808 (atrent@fs.fed.us).